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2100 PENNSYLVANIA AVENUE, N.W.			SHEPARD, JUSTIN E	
SUITE 800 WASHINGTON, DC 20037			ART UNIT	PAPER NUMBER
			2623	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Commence	09/986,555	ORTEGA RODRIGUEZ ET AL.			
Office Action Summary	Examiner	Art Unit			
	Justin E. Shepard	2623			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 17 M	arch 2008.				
· <u> </u>					
3) Since this application is in condition for allowar	, —				
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
 4) Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-18 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

DETAILED ACTION

Response to Arguments

Applicant's arguments filed 3/17/08 have been fully considered but they are not persuasive.

Page 6, last paragraph:

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., different uplink channels from a service provider and a user are inserted into a downlink signal in a synchronous manner) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). This limitation is found in the amended claim, and will be dealt with in the updated rejection.

Page 8, paragraph beginning with "Column":

The applicant argues that Schiff teaches a sequential transmitting of data on a single downlink carrier (in column 4, lines 19-25), but does not teach a system wherein the period of a downlink frame is equal to the period of a uplink frame. The portion cited by the applicant is being used to teach a multiplexer in the satellite, which is used to multiplex and transmit the multiple uplink channels onto a downlink channel. As shown on column 3, lines 1-5 and 55-58; the frame length (or period) is referred to as being 20

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msecs in both examples, which the examiner is interpreting as meeting the limitation of the periods of the uplink and downlink frames being equal.

The applicant further argues that Schiff does not differentiate the type of earth stations being implemented. While the examiner agrees that Schiff is silent on this matter, Adiwoso discloses a system with multiple types of earth stations (figure 1).

Page 8, last 2 paragraphs:

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, both systems are 2-way satellite communication systems. Although they do perform different types of transmission, Adiwoso is being used to disclose the details of the system as a whole and not the transmission specifics. The opinion of the examiner is that the transmission scheme taught by Schiff could be implemented on a system with the same setup as the Adiwoso system, and therefore the combination is valid..

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1-8, 17, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Adiwoso in view of Schiff.

Referring to claim 1, Adiwoso discloses an integrated multispot satellite communication system in a multimedia broadcasting network with a return channel (figure 1; column 3, lines 35-48), comprising:

a satellite that receives a multimedia broadcast signal from a provider and transmits said multimedia broadcast signal to a user in response to a request from said user (column 3, lines 43-48);

a network controller that receives different return channels from said user and said provider, via said satellite (column 4, lines 30-32, 36-38, and 48-53), wherein a signaling part of said multimedia broadcast signal is addressed from said provider to said network controller (column 9, lines 57-65).

Adiwoso does not disclose a system with common means of burst synchronization such that the transmission rate in a downlink direction from the satellite is a whole multiple of a clock reference of said network; wherein different uplink channels from a service provider and a user are inserted into a downlink signal in a

synchronous manner, such that a period of the downlink frame is equal to a period of the uplink frame.

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In an analogous art, Schiff teaches a system with common means of burst synchronization (column 7, lines 18-23) such that the transmission rate in a downlink direction from the satellite is a whole multiple of a clock reference of said network (column 4, lines 65-67; figure 5; Note: The I Frame shown in figure 5 is interpreted as being the period of the downlink transmission. With this information one can see that 3 sets of information are sent within the downlink period. As the applicant has noted the transfer rate is equal to the amount of data sent divided by the period (Nd/Tdf = Rtd). Therefore the rate would be equal, in this case, to 3 times the frequency (where frequency is equal to 1/Tdf); wherein different uplink channels from a service provider and a user are inserted into a downlink signal in a synchronous manner, such that a period of the downlink frame is equal to a period of the uplink frame (column 3, lines 55-58; column 3, lines 1-5; column 3, lines 19-22; Note: as Adiwoso discloses a plurality of types of earth stations, it would have been obvious for one of ordinary skill in the art to interpret the master station as the provider while the other stations are the users.).

At the time of the invention it would have been obvious for one of ordinary skill in the art to add the synchronization method taught by Schiff to the system disclosed by Adiwoso. The motivation would have been to enable multiple users to transmit upstream to the satellite on the same frequency, thereby allowing for more efficient usage of bandwidth while insuring proper synchronization (Schiff: column 3, lines 1-5).

Claim 5 is rejected on the same grounds as claim 1.

Referring to claim 2, Adiwoso does not disclose a system according to claim 1, wherein said satellite is configured to generate said network clock reference.

In an analogous art, Schiff teaches a system according to claim 1, wherein said satellite is configured to generate said network clock reference (column 5, lines 27-31).

At the time of the invention it would have been obvious for one of ordinary skill in the art to add the synchronization method taught by Schiff to the system disclosed by Adiwoso. The motivation would have been to enable multiple users to transmit upstream to the satellite on the same frequency (Schiff: column 3, lines 1-5).

Claim 6 is rejected on the same grounds as claim 2.

Referring to claim 3, Adiwoso does not disclose a system according to claim 2, further comprising a multiplexer.

In an analogous art, Schiff teaches a system according to claim 2, further comprising a multiplexer (figure 3).

At the time of the invention it would have been obvious for one of ordinary skill in the art to add the synchronization method taught by Schiff to the system disclosed by Adiwoso. The motivation would have been to enable multiple users to transmit upstream to the satellite on the same frequency (Schiff: column 3, lines 1-5).

Referring to claim 4, Adiwoso does not disclose a system according to claim 3, characterized in that said multiplexer inserts in the synchronous manner the different uplink channels from the service provider and the user into the downlink signal.

In an analogous art, Schiff teaches a system according to claim 3, characterized in that said multiplexer inserts in the synchronous manner the different uplink channels from the service provider and the user into the downlink signal (column 4, lines 19-25).

At the time of the invention it would have been obvious for one of ordinary skill in the art to add the synchronization method taught by Schiff to the system disclosed by Adiwoso. The motivation would have been to enable multiple users to transmit upstream to the satellite on the same frequency (Schiff: column 3, lines 1-5).

Claim 7 is rejected on the same grounds as claims 3 and 4.

Claim 8 is rejected on the same grounds as claim 4.

Referring to claim 17, Adiwoso discloses a system of claim 1, wherein said request from said user comprises a request for video on demand service (column 3, lines 43-48).

Claim 18 is rejected on the same grounds as claim 17.

2. Claims 9 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Adiwoso in view of Schiff as applied to the claims above, and further in view of Hreha.

Referring to claim 9, Adiwoso and Schiff do not disclose a system of claim 1, wherein said system is configured to communicate in accordance with digital video broadcasting return channel system.

In an analogous art, Hreha teaches a system of claim 1, wherein said system is configured to communicate in accordance with digital video broadcasting return channel system (column 3, lines 34-42).

At the time of the invention it would have been obvious for one of ordinary skill in the art to use the DVB-RC standard taught by Hreha in the system disclosed by Adiwoso and Schiff. The motivation would have been to use a public signaling standard (column 3, lines 34-42).

Claim 10 is rejected on the same grounds as claim 9.

3. Claims 11-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Adiwoso in view of Schiff as applied to the claims above, and further in view of Setoyama.

Referring to claim 11, Adiwoso and Schiff do not disclose a system of claim 1, wherein said downlink direction transmission rate is one of 54 Mbit/s, 81 Mbit/s and 108 Mbit/s.

In an analogous art, Setoyama teaches a system of claim 1, wherein said downlink direction transmission rate is one of 54 Mbit/s (column 1, lines 39-41 and 46-51), 81 Mbit/s and 108 Mbit/s.

At the time of the invention it would have been obvious for one of ordinary skill in the art to use the 54 Mbit/s transmission rate taught by Setoyama in the system disclosed by Adiwoso and Schiff. The motivation would have been to fit more data into the stream.

Claim 12 is rejected on the same grounds as claim 11.

Referring to claim 13, Adiwoso and Schiff do not disclose a system of claim 1, wherein a bandwidth of a transmitter onboard said satellite is a multiple of 27 MHz.

In an analogous art, Setoyama teaches a system of claim 1, wherein a bandwidth of a transmitter onboard said satellite is a multiple of 27 MHz (column 1, lines 39-41 and 46-51).

At the time of the invention it would have been obvious for one of ordinary skill in the art to use the 27 MHz bandwidth taught by Setoyama in the system disclosed by Adiwoso and Schiff. The motivation would have been to fit more data into the stream.

Claim 14 is rejected on the same grounds as claim 13.

Claims 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Adiwoso in view of Schiff as applied to the claims above, and further in view of Sharon.

Referring to claim 15, Adiwoso discloses a system of claim 1, further comprising: wherein said network controller performs control operations and verifies at least one of an identity and a profile of said user (column 4, lines 48-53; column 9, lines 57-65).

Adiwoso and Schiff do not disclose a system with a regenerator, positioned on said satellite, that performs multiplexing and at least one of cross-connecting and broadcasting channels to different coverage zones.

In an analogous art, Sharon teaches a system with a regenerator, positioned on said satellite, that performs multiplexing and at least one of cross-connecting and broadcasting channels to different coverage zones (column 4, lines 31-39).

At the time of the invention it would have been obvious for one of ordinary skill in the art to add the repeater for adding zone coverage taught by Sharon to the system disclosed by Adiwoso and Schiff. The motivation would have been to enable coverage of multiple zones (or areas) thereby decreasing the need to launch a satellite for each area, therefore saving money (Adiwoso: figure 2; column 6, lines 20-30).

Claim 16 is rejected on the same grounds as claim 15.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin E. Shepard whose telephone number is (571) 272-5967. The examiner can normally be reached on 7:30-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Kelley can be reached on (571) 272-7331. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Chris Kelley/ Supervisory Patent Examiner, Art Unit 2623